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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

KIM, Yang Hann

Title:

**METHOD OF VISUALIZING SOUND FIELDS OF  
INDIVIDUAL SOUND SOURCES USING ACOUSTIC  
HOLOGRAPHY**

Serial No.:

10/758,431

Filing Date:

14 January 2004

Examiner/Unit:

Daniel T. Pihulic / 3662

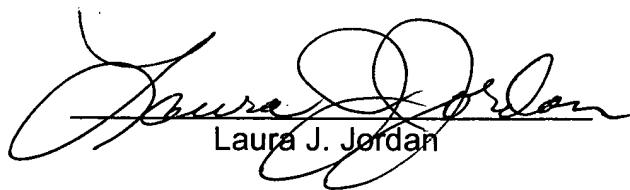
Attorney Docket No.:

1768-048-03

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited in the United States Postal Service "First class mail" on the date indicated below and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

this 13<sup>th</sup> day of May 2005.



Laura J. Jordan

A handwritten signature in black ink, appearing to read "Laura J. Jordan". Below the signature, the name "Laura J. Jordan" is printed in a smaller, sans-serif font.

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR § 1.97**

Dear Commissioner:

In compliance with the duty of disclosure under 37 CFR § 1.56, Applicants submit herewith patents, publications, or other information for consideration during the examination of this application. The enclosed documents represent prior art references found in the Background of the Application.

In accordance with 37 CFR § 1.97, the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made nor that the information cited in the statement is or is considered to be "material" to patentability as defined in 37 CFR § 1.56(b).

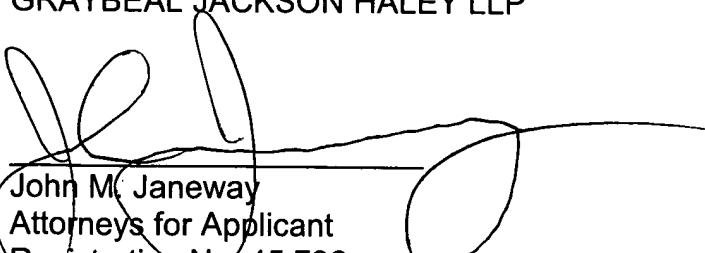
Enclosed herewith are the following documents and instructions:

- Check No. 23955 for \$180.00 is enclosed because a late surcharge fee is believed to be due in connection with the filing of this Supplemental Information Disclosure Statement.
- Charge any additional fees or credit any overpayments to Deposit Account No. 07-1897.
- A postcard as acknowledgement of receipt of PTO Form SB-8a and 8b and copies of the documents cited in the attached form are enclosed.

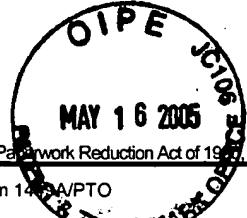
DATED this 13<sup>th</sup> day of May, 2005.

Respectfully submitted,

GRAYBEAL JACKSON HALEY LLP



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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

App. No. 11/333,450, Filed: Dec. 1, 2005, U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**Substitute for form 14-A/PTO**

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 1 of 2

**Complete if Known**

Application Number	10/758,431
Filing Date	14 January 2004
First Named Inventor	KIM, Yang Hann
Art Unit	3662
Examiner Name	Daniel T. Pihulic
Attorney Docket Number	1768-048-03

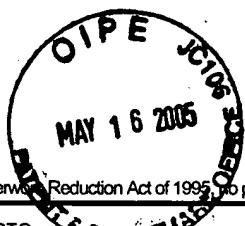
## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO.

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

**Complete if Known**

Application Number	10/758,431
Filing Date	14 January 2004
First Named Inventor	KIM, Yang Hann
Art Unit	3662
Examiner Name	Daniel T. Pihulic

Attorney Docket Number

1768-048-03

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Article: "Holographic Imaging without the Wavelength Resolution Limit" by Earl G. Williams and J. D. Maynard, printed in Vol 45, Number 7 of The American Physical Society on 18 August 1980	Y
	C2	Article: "STSF - a unique technique for scan-based Near-field Acoustic Holography without restrictions on coherence" by Jorgen Hald, printed in Brue & Kjaer Technical Review, Vol. 1, 1989	Y
	C3	Article: "Moving fram technique for planar acoustic holography" by Hyu-Sang Kwon and Yang-Hann Kim, printed in J. Acoust. Soc. Am 103(4), pp 1734-1741, April 1998	Y
	C4	Article: "Nearfield acoustic holography: I. Theory of generalized holography and the development of NAH" by J.D. Maynard, E. G. Willaims and Y. Lee, printed in J. Acoust. Soc. Am. 78(4), pp 1395-1413, October 1985	Y
	C5	Article: "Digital holographic reconstruction of sources with arbitrarily shaped surfaces" by W. A. Veronesi and J. D. Maynard, printed in J. Acoust. Soc. Am. 85(2), pp. 588-598, February 1989	Y
	C6	Article: "Multi-Reference Nearfield Acoustical Holography" by Darren Hallman and J. Stuart Bolton, printed in Inter-noise magazine, Toronto, Ontario, Canada on July 20-22, 1992, pp. 1164-1169	Y
	C7	Article: "Separation of leading edge, trailing edge, and sidewall noise sources from rolling tires" by Richard J. Ruhala and Courtney B. Burroughs, printed for Noise-Con 98, Ypsilanti, Michigan, April 5-8, 1998, pp 109-114	Y
	C8	Article: "Partial field decomposition in nearfield acoustical holography by the use of singular value decomposition and partial coherence procedures" by Hyu-Sang Kwon and J. Stuart Bolton, printed for Noise-Con 98, Ypsilanti, Michigan, April 5-8, 1998, pp 649+	Y

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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